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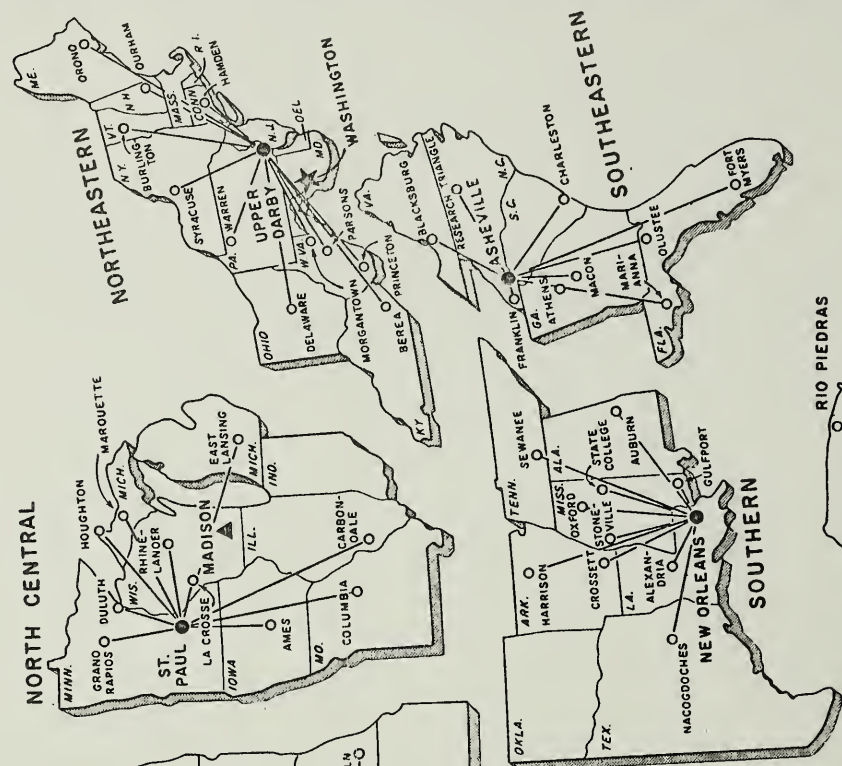
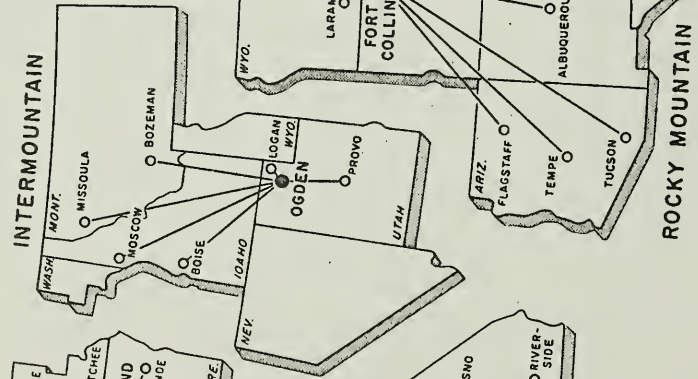
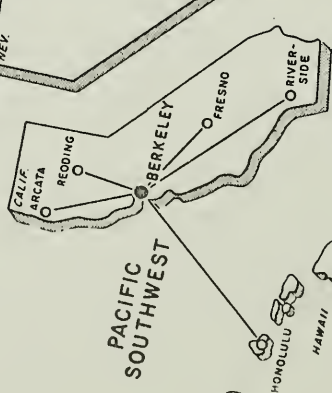
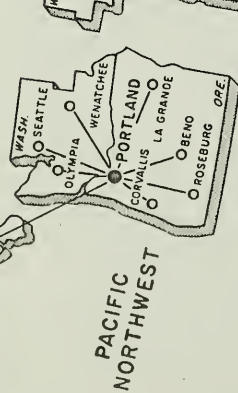
FOREST PRODUCTS LABORATORY
LIST OF PUBLICATIONS
ON
GLUE, GLUED PRODUCTS, AND VENEER

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FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS

ON

GLUE, GLUED PRODUCTS, AND VENEER

This list includes publications that present the results of research by the Forest Products Laboratory on the development of waterproof glues, preparation and application of various glues, plywood manufacturing problems, etc.

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INSTRUCTIONS FOR OBTAINING PUBLICATIONS

Publications not available for distribution at this Laboratory are marked with an asterisk (*).

Single reports may be obtained free upon request from the Director, Forest Products Laboratory, Madison, Wis. 53705.

Federal Government bulletins, circulars, and leaflets, if not available for free distribution at this Laboratory, may be purchased at the price indicated from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, Send money order, draft, or cash; stamps or personal checks are not accepted.

Trade journals containing articles herein listed may often be purchased from the publishers or may be consulted in various libraries.

The Forest Products Laboratory reserves the right to furnish only those publications which in its judgment will give the information requested. Blanket requests or requests for a large number of copies of any individual article will not be filled except in unusual cases.

Title

Author

Publication and date

TYPES OF GLUES AND THEIR CHARACTERISTICS

Measurement of uniaxial creep of selected adhesives in free film form.	: Tellman, S. J., : Kutscha, D., & : Soper, V. R. :	: U.S. Forest Serv. Res. : Note FPL-0157. 1967. : :
Selection and properties of wood-working glues.	: : :	: U.S. Forest Serv. Res. : Note FPL-0138. 1966. :
Synthetic resin glues.	: Forest Products : Laboratory :	: U.S. Forest Serv. Res. : Note FPL-0141. 1966. :
*Adhesives.	: Blomquist, R.F. : : : :	: Reprinted from Ency- : clopedia of Chem. Tech. : 2d ed. 1963, Vol. 1, : 371-405. :
*Epoxy-resin adhesives for gluing wood.	: Olson, W.Z. : :	: Forest Prod. J. 12 : (2):74-80, Feb. 1962. :
*Progress in glues and gluing processes.	: Blomquist, R.F. : :	: Forest Prod. J. 12 : (2):49-58, Feb. 1962. :
*An evaluation of 21 rubber-base adhesives for wood.	: Blomquist, R.F. : & Olson, W.Z. :	: Forest Prod. J. 10 : (10):494-502, Oct. 1960. :
*An international look at glues and gluing.	: Blomquist, R.F. : :	: Forest Prod. J. 10 : (2):62-70, Feb. 1960. :
Occurrence and removal of glue stains.	: Forest Products : Laboartory :	: FPL Tech. Note 146. : Reissued 1958. :
The ideal glue--how close are we?	: Brouse, D. : :	: Forest Prod. J. 7 (5): : 163-167, May 1957. :
*Better glues.	: Blomquist, R.F. : :	: South. Lbrmn. 194(2418): : 43-47, Jan. 1957. :
*Polyvinyl-resin emulsion wood-working glues.	: Olson, W.Z., & : Blomquist, R.F.	: Forest Prod. J. 5 : (4):219-226, Aug. 1955.

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TYPES OF GLUES AND THEIR CHARACTERISTICS (continued)

Copper salts improve casein glue.	: Forest Products Laboratory	: FPL Tech. Note 170. Reissued 1953.
Overheating reduces strength of animal glue.	: Forest Products Laboratory	: FPL Tech. Note 104. Reissued 1953.
Animal glues: Their manufacture, testing and preparation.	: Forest Products Laboratory	: FPL Rep. 492. 1929. +1960.

GLUING OF WOOD

Gluing ammonium-salt-treated southern pine with resorcinol-resin adhesives.	: Schaeffer, R. E.	: U.S. Forest Serv. Res. Note FPL-0151. 1967.
Preliminary study of the gluing of ammonium salt-treated wood with resorcinol-resin glues.	: Schaeffer, R. E.	: U.S. Forest Serv. Res. Note FPL-0112. 1966.
Chemical interaction of ammonium salt fire retardants and resorcinol-resin adhesives.	: Schaeffer, R. E., & Gillespie, R. H., & Blomquist, R. F.	: Forest Prod. J. 16 (5):23-30. May 1966.
Behavior of an epoxy-polysulfide adhesive in wood joints exposed to moisture content changes.	: Krueger, G. P.	: U.S. Forest Serv. Res. Paper FPL 24. 1965.
Device for estimating wood or glue failure in glue block shear test.	: Forest Products Laboratory	: U.S. Forest Serv. Res. Note FPL-0102. 1965.
Experimental techniques for determining mechanical behavior of flexible structural adhesives in timber joints.	: Krueger, G. P., & Blomquist, R. F.	: U.S. Forest Serv. Res. Paper FPL 21. 1965.

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A comparison of the block shear, cross-lap tension, and glueline cleavage methods of testing glued joints.	: Stanger, A.G., & : Blomquist, R.F. : :	: Forest Prod. J. 15 : (12):468-474, Dec. 1965. : :
Performance of a rigid and a flexible adhesive in lumber joints subjected to moisture content changes.	: Krueger, G.P., & : Blomquist, R.F. : :	: U.S. Forest Serv. Res. : Note FPL-076. 1964. : :
Control of conditions in gluing with protein and starch glues.	: Forest Products : Laboratory :	: U.S. Forest Serv. Res. : Note FPL-050. 1964. : :
Adhesives--past, present, and future.	: Blomquist, R.F. : :	: ASTM 1963. Edgar : Marburg Lecture. : :
*Adhesives for structural laminated lumber.	: Selbo, M.L. : :	: Adhesives Age 4(2): : 22-25, Feb. 1961. : :
Chemical treatment of surfaces improves joints with certain woods and glues.	: Forest Products : Laboratory : :	: FPL Tech. Note 232. : Rev. 1961. : :
Effect of solvent on gluing of preservative-treated red oak, Douglas-fir, and southern pine.	: Selbo, M. L. : :	: Amer. Wood- : Preservers' Assn. : 1961. : :
*Progress in 1960...glues and gluing processes.	: Blomquist, R.F. : :	: Forest Prod. J. 11 : (2):77-85, Feb. 1961. : :
*The future of adhesives in the wood industry.	: Blomquist, R.F., : & Fleischer, H.O. : :	: Forest Prod. J. 10 : (12):626-630, Dec. 1960. : :
The gluing of treated lumber.	: Selbo, M.L. : :	: Amer. Wood- : Preservers' Assn. : Proc. 1960.

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GLUING OF WOOD (continued)

Proceedings of the symposium on adhesives for the wood industry held at U.S. Forest Products Laboratory, Madison, Wis. Jan. 13-15, 1960.	: Locke, E. G.	: FPL Rep. 2183. 1960.
Starved glue joints.	: Forest Products Laboratory	: FPL Tech. Note 193. 1960.
Strength tests of spliced studs.	: Erickson, E.C.O.	: FPL Rep. 1275. Revised 1959. +1965.
Summary of information on gluing of treated wood.	: Selbo, M. L.	: FPL Rep. 1789. Revised 1959. +1965.
Tooth-planing not necessary to produce strong glued wood joints.	: Forest Products Laboratory	: FPL Tech. Note 227. Rev. 1957.
Glued structural members.	: Forest Products Laboratory	: Separate from Wood Handb. USDA Agr. Handb. No. 72. 1955.
Gluing characteristics of chinquapin, tanoak, California laurel, madrone.	: Olson, W. Z.	: FPL Rep. 2030. 1955. +1960.
Gluing of wood.	: Forest Products Laboratory	: Separate from Wood Handb. USDA Agr. Handb. No. 72. 1955.
*Gluing techniques for beech.	: Olson, W. Z., & Blomquist, R. F.	: Beech Util. Series No. 5. Northeastern Forest Exp. Sta. 1953.
Glues for wood in archery uses.	: Forest Products Laboratory	: FPL Tech. Note 226. Rev. 1952.

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GLUING OF WOOD (continued)

Development of strength in yellow birch lap joints glued with six resorcinol-resin glues at temperatures from 40° to 80° F.	Olson, W. Z., & Blomquist, R. F.	FPL Rep. 1565. 1947. +1962.
Gluing of plywood to concealed framing members with high-frequency stray field heating.	Bell, E. R., & Dunlap, M. E.	FPL Rep. 1694. 1947. +1960.
Curing of resorcinol-resin glues at temperatures from 40° to 80° F.	Olson, W. Z., Bruce, H. D., & Soper, V.	FPL Rep. 1629. 1946. +1964.
Glues and gluing in prefabricated house construction.	Arneson, G. N.	Miss. Valley Lbrmn. May 10, 17, 1946. Cosgrove's Mag., May-June 1946.
Rate of development of joint strength by four resin glues on eight species of wood.	Olson, W. Z., Bruce, H. D., & Soper, V.	FPL Rep. 1547. 1946. +1962.
Strength of joints in hard maple blocks, glued with certain resin glues, after various open and closed assembly periods.	Bruce, H. D., & Olson, W. Z.	FPL Rep. 1542. 1946. +1960.
Variation in maximum allowable assembly time with age in the pot at time of spreading for four resin glues.	Olson, W. Z., & Bruce, H. D.	FPL Rep. 1546. 1946. +1962.
Experiments on the gluing of wood treated with oil solutions of chlorophenols.	Kaufert, F. H., & Hutchins, W. F.	FPL Rep. 1484. 1945. +1961.

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Development of joint strength in : Forest Products	:	FPL Rep. 1531. 1944.
birch plywood glued with phenol-, : Laboratory	:	+1960.
resorcinol-, and melamine- : :	:	:
resin glues cured at several : :	:	:
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The effect of fire-retardant : Forest Products	:	FPL Rep. 1427. 1942.
chemicals on glues used in : Laboratory	:	+1963.
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species of wood with cold-setting : Laboratory	:	Revised 1942. +1962.
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*Gluing wood in aircraft manu- : Truax, T. R.	:	USDA Tech. Bull. 205.
facture. : :	:	1930. 25 cents.
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*The gluing of wood. : Truax, T. R.	:	USDA Bull. 1500. 1929.
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Important factors in gluing with : Forest Products	:	FPL Rep. 869. 1929.
animal glue. : Laboratory	:	+1965.

GLUING OF MATERIALS OTHER THAN WOOD

(Metals, Plastics, etc.)

Adhesives for bonding wood to : Forest Products	:	U.S. Forest Serv. Res.
metal. : Laboratory	:	Note FPL-082. 1964.
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Determination of mechanical : Kuenzi, E. W., &	:	U.S. Forest Serv. Res.
properties of adhesives for use : Stevens, G. H.	:	Note FPL-011. 1963.
in the design of bonded joints. : :	:	:
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Importance of balanced con- : Heebink, B. G.	:	U.S. Forest Serv. Res.
struction in plastic-faced wood : :	:	Note FPL-021. 1963.
panels. : :	:	:
: :	:	:
Effect of heat and humidity on : Heebink, B. G., &	:	Forest Prod. J. 12
the properties of high-pressure : Haskell, H. H.	:	(11):542-548, Nov. 1962.
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GLUING OF MATERIALS OTHER THAN WOOD (continued)

(Metals, Plastics, etc.)

Polymer structure and the thermal deterioration of adhesives in metal joints. Pts. 1 and 2.	: Black, J. M., & Blomquist, R. F.	: Adhesives Age 5(2): 30-36, Feb. 1962. 5(3): 34-38, Mar. 1962.
*Paper overlays on low-grade lumber.	: Heebink, B. G.	: The Northeastern Logger 10(4):14-15, 34-36, 43, Oct. 1961.
*How to balance plastic-faced wood panels.	: Heebink, B. G.	: Wood and Wood Prod. 66(6):38, 40, June 1961.
Development of adhesives with improved heat resistance in bonds of stainless steel.	: Black, J. M., & Blomquist, R. F.	: FPL Rep. 1883. 1961.
Statistical variations of the lap-joint strength of metal-bonding adhesives at elevated temperatures.	: Eickner, H. W., & Olson, W. Z.	: FPL Rep. 1880. 1961.
Bonding wood veneer flooring to concrete subfloors.	: Eickner, H. W.	: Veneers and Plywood 53(9):18-19, 21, 24, Sept. 1959.
*Adhesive deterioration in metal bonds at high temperatures.	: Blomquist, R. F., & Black, J. M.	: Adhesives Age 2(5):34-39, May 1959. 2(6): 27-38, June 1959.
Metal surface effects on heat resistance of adhesive bonds.	: Black, J. M., & Blomquist, R. F.	: Indus. & Eng. Chem. 50(6):918-921, June 1958.

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(Metals, Plastics, etc.)

Effect of surface treatment on the adhesive bonding properties of magnesium.	: Eickner, H. W.	: FPL Rep. 1865. 1958. +1965.
*Weathering of adhesive-bonded lap joints of clad aluminum alloy.	: Eickner, H. W.	: WADC Tech. Rep. 54-477. Pt. I. Feb. 1955. Pt. II. (ASTIA Doc. AD-130879). July 1957. Available from Research & Technical Div., ML (MAAE), Wright-Patterson Air Force Base, Ohio.
Climbing peel test for strength of adhesive bonds.	: Werren, F., & Eickner, H. W.	: Modern Plastics, Dec. 1956.
*Tensile strength of adhesive bonds in sandwich with aluminum facings and aluminum honeycomb cores.	: Setterholm, V. C., Eickner, H. W., & Kuenzi, E. W.	: WADC Tech. Rep. 56-386. (ASTIA Doc. AD-11049). Oct. 1956. Available from Research & Technical Div., ML (MAAE), Wright-Patterson Air Force Base, Ohio.
*Development and evaluation of the climbing peel method for testing adhesive bonds in sandwich and metal-to-metal constructions.	: Eickner, H. W., & Werren, F.	: WADC Tech. Rep. 56-239. (ASTIA Doc. AD-97294). Sept. 1956. Available from Research & Technical Div., ML (MAAE), Wright-Patterson Air Force Base, Ohio.
*Metal-bonding adhesives for high-temperature service.	: Black, J. M., & Blomquist, R. F.	: Modern Plastics 33(10): 250, June 1956.

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GLUING OF MATERIALS OTHER THAN WOOD (continued)

(Metals, Plastics, etc.)

*High strength adhesives for metal bonding.	: Blomquist, R. F.:	: Machine Design 28(11):
	:	: 99-103, May 31, 1956.
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Adhesive bonding properties of various metals as affected by chemical and anodizing treatments of the surfaces (Pt. A--	: Eickner, H. W.:	: FPL Rep. 1842-A.
Additional tests on anodized aluminum and on zinc-chromate primed magnesium).	:	: 1955. +1960.
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Basic shear strength properties of metal-bonding adhesive as determined by lap-joint stress formulas of Volkersen and Goland and Reissner.	: Eickner, H. W.:	: FPL Rep. 1850. 1955.
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Durability of low-density sandwich panels of the aircraft type as determined by laboratory tests and exposure to weather.	: Setterholm, V. C.,:	: FPL Rep. 1573-C.
	: Heebink, B. G., &:	: 1955. +1960.
	: Kuenzi, E. W.:	:
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Metal-bonding adhesives with improved heat resistance.	: Black, J. M., &:	: Modern Plastics,
	: Blomquist, R. F.:	: Dec. 1954.
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* Comparisons of test methods for evaluating adhesives for bonding metal facings to metal honeycomb cores.	: Eickner, H. W., &:	: WADC Tech. Rep. 54-138.
	: Werren, F.:	: July 1954. Available from
	:	: Research & Technical Div.,
	:	: ML (MAAE), Wright-
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Development of improved structural epoxy-resin adhesives and bonding processes for metal.	: Black, J. M., &:	: FPL Rep. 2008. 1954.
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Adhesive bonding properties of various metals as affected by chemical and anodizing treatments of the surfaces (addendum added).	: Eickner, H. W.	: FPL Rep. 1842. 1953. +1960.
The shear, fatigue, bend, impact, and long-time load strength properties of structural metal-to-metal adhesives in bonds to 24S-T3 aluminum alloy.	: Eickner, H. W.	: FPL Rep. 1836. 1953. +1965.
*Effect of temperatures from -70° to 600° F. on strength of adhesive-bonded lap shear specimens of clad 24S-T3 aluminum alloy and of cotton- and glass-fabric plastic laminates.	: Eickner, H. W., : Olson, W. Z., & : Blomquist, R. F.	: National Advisory Comm. : for Aeronautics Tech. : Note 2717. June 1952.
*Evaluation of several adhesives and processes for bonding sandwich constructions of aluminum facings on paper honeycomb core.	: Eickner, H. W.	: National Advisory Comm. : for Aeronautics Tech. : Note 2106. May 1950.
A study of methods for preparing clad 24S-T3 aluminum-alloy sheet surfaces for adhesive bonding.	: Eickner, H. W., & : Schowalter, W. E.	: FPL Rep. 1813. 1950. : +1962.
A study of methods for preparing clad 24S-T3 aluminum-alloy sheet surfaces for adhesive bonding: Pt. 3--Effect of cleaning method on resistance of bonded joints to saltwater spray.	: Eickner, H. W.	: FPL Rep. 1813-A. : 1950. +1962.

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(Metals, Plastics, etc.)

*Gluing tests with room-temperature-setting adhesives to fabric-base plastic laminates.	:	Eickner, H. W.	:	Air Force Tech. Rep. 5928. Aug. 1949.
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Strength of aluminum lap joints at elevated temperatures. (Tests conducted immediately after the temperature was reached.)	:	Kuenzi, E. W.	:	FPL Rep. 1808. 1949. +1962.
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Gluing of thin compreg.	:	Eickner, H. W., & Bruce, H. D.	:	FPL Rep. 1346. 1946. +1962.
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Resistance to fatigue stressing of wood-to-metal joints glued with several types of adhesives.	:	Eickner, H. W.	:	FPL Rep. 1545. 1946. +1962.
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DURABILITY OF GLUES

Performance of melamine-resin adhesives in various exposures.	:	Selbo, M. L.	:	Forest Prod. J. 15(12):475-483, Dec. 1965.
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After two decades of service glulam timbers show good performance.	:	Selbo, M. L., & Knauss, A. C., & Worth, H. E.	:	Forest Prod. J. 15(11):466-472, Nov. 1965.
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Accelerated aging of adhesives in plywood-type joints.	:	Gillespie, R. H.	:	Forest Prod. J. 15(9):369-378, Sept. 1965.
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Durability of fortified urea-resin glues exposed to exterior weathering.	:	Blomquist, R. E., & Olson, W. C.	:	Forest Prod. J. 14(10):461-466, Oct. 1964.
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Durability of urea-resin glues modified with polyvinyl acetate and blood.	: Gillespie, R. H., : : Olson, W. Z., & : : Blomquist, R. F.: Aug. 1964.	: Forest Prod. J. : 14(8):343-349, : Aug. 1964.
Heating veneer bolts to improve quality of Douglas-fir plywood.	: Lutz, J. F.	: FPL Rep. 2182. 1960.
*Adhesive deterioration in metal bonds at high temperatures.	: Blomquist, R. F., & : : Black, J. M.	: Adhesives Age 2(5): : 34-39, May 1959. 2(6): : 27-38, June 1959.
Effect of repeated loading and salt-water immersion on flexural properties of laminated white oak.	: Freas, A. D., & : : Werren, F.	: Forest Prod. J. 9(2): : 100-103, Feb. 1959.
Glue joints durable--12-year tests in preservative-treated laminated timbers reported.	: Selbo, M. L.	: South. Lbrmn. 197(2465): : 171-178, Dec. 15, 1958.
Durability of urea-resin glues at elevated temperatures.	: Blomquist, R. F., & : : Olson, W. Z.	: Forest Prod. J. 7(8): : 266-272, Aug. 1957.
Effect of moisture on bacterial weakening of casein-bonded plywood.	: Duncan, C. G.	: FPL Rep. 2077. 1957. : +1963.
Durability of fortified urea-resin glues in plywood joints.	: Blomquist, R. F., & : : Olson, W. Z.	: Forest Prod. J. 5(1): : 50-56, Feb. 1955.
*Evaluation of glues and glued products.	: Blomquist, R. F.:	: Preprint Forest Prod. : Res. Soc. 8th Annual : National Meeting, Grand : Rapids, Mich. May 1954.
Durability of woodworking glues in different types of assembly joints.	: Selbo, M. L., & : : Olson, W. Z.	: Forest Prod. J. 3(5): : 50-60, Dec. 1953.

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*Durability of glue joints in preservative treated wood.	: Selbo, M. L.	: South. Lbrmn. 185(2321): 203-206, Dec. 15, 1952.
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Current investigations of the durability of woodworking adhesives.	: Blomquist, R. F.	: ASTM symposium on testing adhesives for durability and permanence. STP No. 138. 1952.
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*The durability of birch plywood treated with wood preservatives and fire-retarding chemicals.	: Blew, J. O., & Olson, W. Z.	: Amer. Wood-Preservers' Assn. Proc. 1950.
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Durability of papreg-to-papreg and papreg-to-birch glue joints.	: Eickner, H. W.	: FPL Rep. 1538. Rev. 1950. +1962.
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*Durability of woodworking glues for dwellings.	: Selbo, M. L.	: Forest Prod. Res. Soc. Proc. 1949.
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*Tests on the durability of wood-working glues.	: Wangaard, F. F.	: South. Lbrmn. 174(2184): 63-64, 66, 68, 70, 74, Apr. 1, 1947.
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Durability of glue joints between blocks of compreg and of compreg and wood.	: Eickner, H. W.	: FPL Rep. 1536. 1945. +1960.
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Effects of elevated curing temperatures on the strength and durability of yellow birch plywood joints made with room-temperature-setting urea glues.	: Black, J. M., Olson, W. Z., & Bruce, H. D.	: FPL Rep. 1339. 1945. +1961.
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Durability of water-resistant woodworking glues.	:	: FPL Rep. 1530. 1944. Reprinted 1963.

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Effect of high and low temperatures on resin glue joints in birch plywood.	Blomquist, R. F.	FPL Rep. 1345. : Rev. 1944. +1962.
Increasing the durability of casein glue joints with preservatives.	Kaufert, F.H.	FPL Rep. 1332. 1943. : +1961.
Procedures for measuring the mold resistance of protein glues.	Kaufert, F.H.	FPL Rep. 1344. 1943. : +1960.

PLYWOOD AND VENEERED PANELS

Surface flammability of various wood-base building materials.		U.S. Forest Serv. Res. : Note FPL-0186. 1968.
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Products

Chemistry of Wood

Modified Woods, Paper-Base
Laminates, and Reinforced
Plastic Laminates

Drying of Wood

Fire Performance

Sandwich Construction

Fungus and Insect Defects in
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Thermal Properties of Wood

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